3-750-180-21 (2)

SONY

Radio Cassette-Corder

CFS-W404

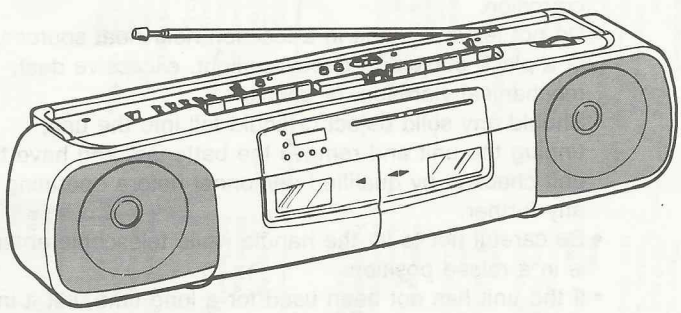
Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number located on the bottom, and the serial number located in the battery compartment. Record the model and serial numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CFS-W404 Serial No. 5118819



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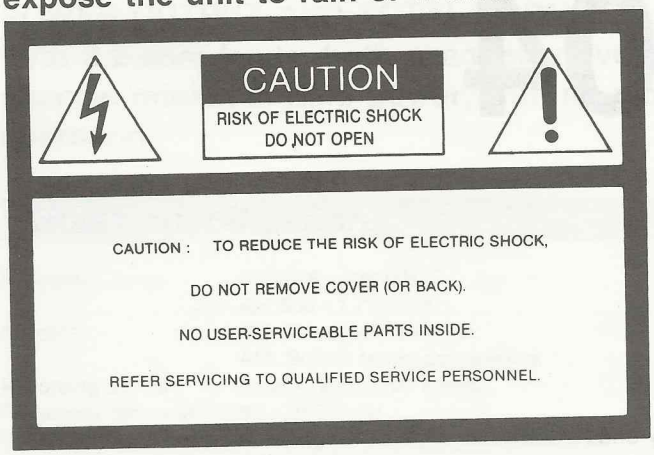
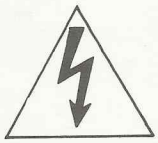
WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

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Features

- The auto-reverse function enables playback on both sides of a cassette without having to turn over the cassette.
- The graphic equalizer controls allow you to get the desired tone quality.
- The AMS function starts from the beginning of the desired selection.
- The normal/high speed dubbing with the synchronized starting system.
- Built-in digital clock timer.

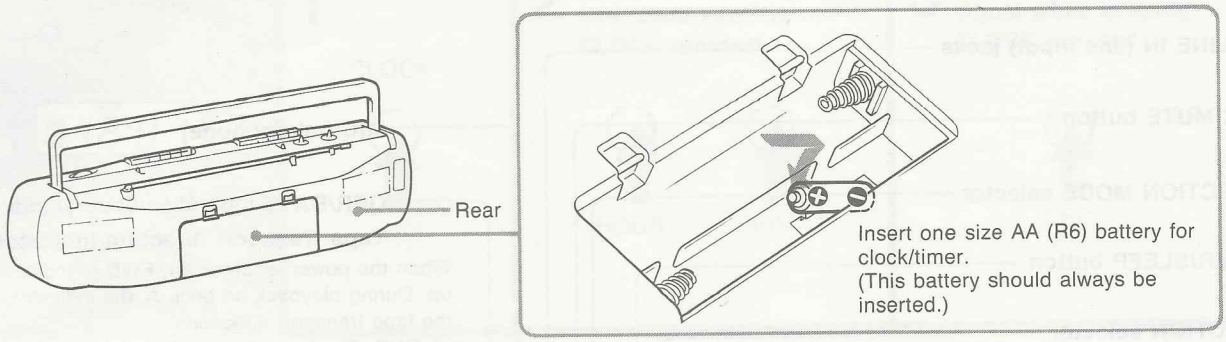
Precautions

- Operate the unit only on 120V AC, or 9V DC.
- For AC operation, use the supplied AC power cord; do not use any other type.
  For battery operation, operate the unit only on 9V DC using six size D (R20) batteries.
- Disconnect the AC power cord from the wall outlet when it is not to be used for an extended period of time.
- When the internal batteries are not to be used, remove them to avoid damage caused by battery leakage and corrosion.
- Do not leave the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust, mechanical vibration, or shock.
- Should any solid object or liquid fall into the unit, unplug the unit and remove the batteries, and have the unit checked by qualified personnel before operating it any further.
- Be careful not to lift the handle while telescopic antenna is in a raised position.
- If the unit has not been used for a long time, set it in playback mode and warm it up for a few minutes before inserting a cassette.
- The use of a cassette tape longer than 90 minutes is not recommended except for long continuous recording or playback.

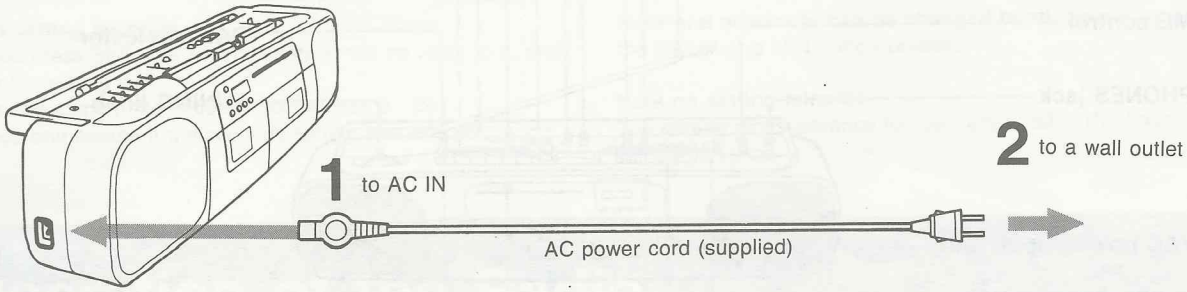
If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

Power Sources

The battery for the clock/timer should always be inserted even when the unit is operated on AC power.

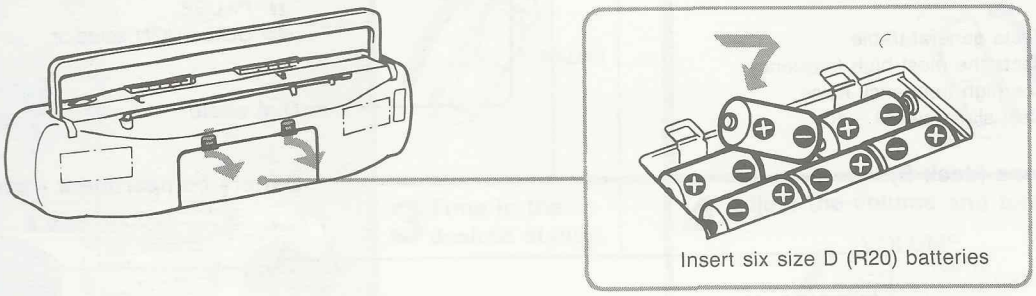


House Current



Batteries

The unit cannot be operated on the internal batteries when the AC power cord is connected to the unit.



Polarity of the batteries
Insert the batteries with correct polarity and in the order indicated on the rear of the unit.

Battery replacement
Batteries for the operation of the radio cassette-corder
When the batteries become weak, the OPR/BATT indicator will glow faintly. In this case, replace all the batteries with new ones.

Battery for the clock/timer operation of the unit
When the battery becomes weak, the indication in the display window becomes faint. Replace the battery with new one and then adjust the clock to the current time and reset the timer setting, if necessary.

For information on battery life, see "Specifications" on rear cover.

For critical recordings
Operating the unit on house current is recommended.

Location and Function of Controls

CD/LINE IN (line input) jacks

REC MUTE button

DIRECTION MODE selector

TIMER/SLEEP button

FUNCTION selector

CD, RADIO, DUBBING, TAPE/RADIO OFF

Telescopic antenna

VOLUME control

HEADPHONES jack

AC IN (AC power input) jack

Graphic equalizer controls

100 Hz: To increase the powerful bass, slide this control toward +10

400 Hz: Use this control to adjust the middle frequency range such as a human voice and the middle frequencies of instrumental music.

1 kHz. Use this control to provide more presence of vocals.

4 kHz: This control effects general treble.

10 kHz: This control effects the most high frequency range. To reduce high frequency noise, such as tape hiss, slide toward −10.

Tape operation buttons (deck B)

■≜ STOP/EJECT
● REC
◀ PLAY
▶▶ REW/REVIEW
◀◀ FF/CUE
II PAUSE

MIC (microphone)

OPR/BATT (operation/battery) indicator

Tape transport direction indicators

When the power is turned on, FWD ◁ indicator lights up. During playback on deck A, the indicators show the tape transport direction.

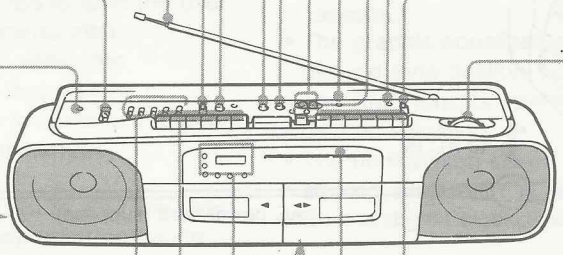
◁ FWD: The front side on deck A is played back.

▷ REV : The reverse side on deck A is played back.

FM STEREO indicator

BAND selector

TUNING knob

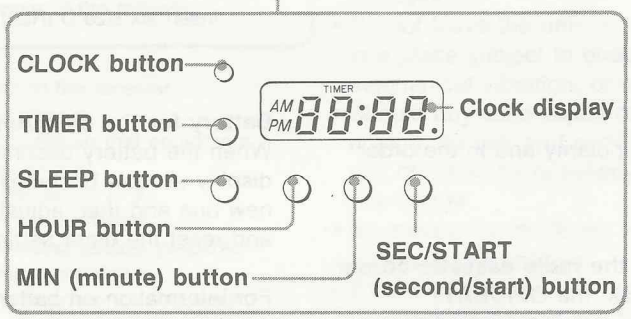


Tape operation buttons (deck A)

■≜ STOP/EJECT
HIGH SPEED DUBBING
◀ PLAY
▶▶
◀◀
II PAUSE
◀▶ DIRECTION selector

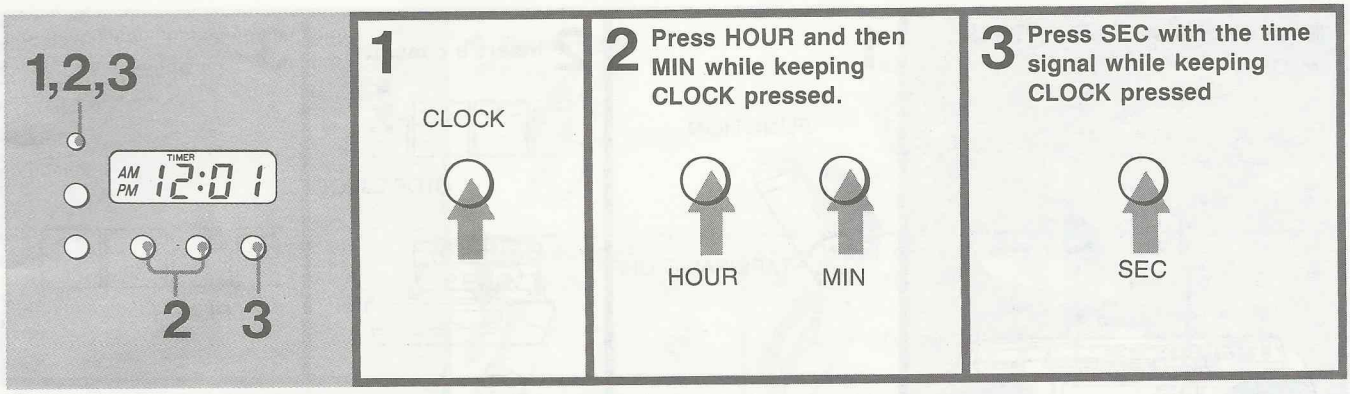
Dial scale

Battery compartment (rear)

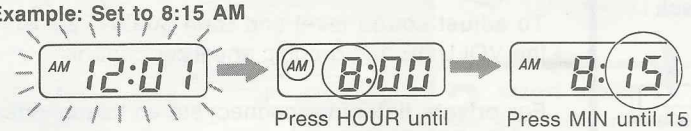


Setting the Clock

The battery for the clock/timer size AA (R6) should be inserted into the battery compartment.



Example: Set to 8:15 AM



Press HOUR until AM 8.00 appears.

Press MIN until 15 appears.

Time indication

AM 12:00 = midnight
PM 12:00 = noon

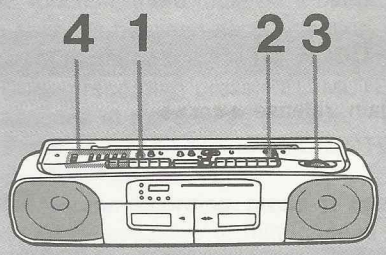
Note on setting seconds
When you press SEC, the seconds setting will be reset to 0, and the minutes setting will:
- remain the same if the seconds setting was 0 - 29.
- advance one minute if the seconds setting was 30 - 59.

Hour and or minute can be changed continuously by keeping the HOUR and MIN button pressed.

Note on setting minutes
The minute digits advance to "00" after "59". The hour digits will not advance.

Operation of the Radio

Make sure to set SLEEP/TIMER to OFF.



1
FUNCTION
RADIO

2 Select the desired band.
BAND
FM
AM

3 Tune in the desired station.
TUNING

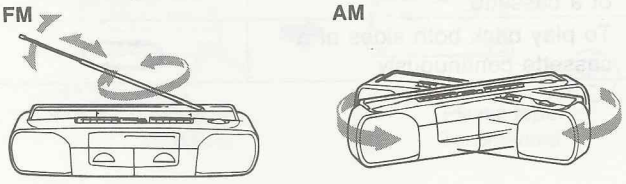
4 Adjust the volume and tone.
VOLUME
100Hz 400Hz 1kHz 4kHz 10kHz

After listening, set FUNCTION to TAPE/RADIO OFF.

When an FM stereo signal is received,
FM STEREO indicator lights up.

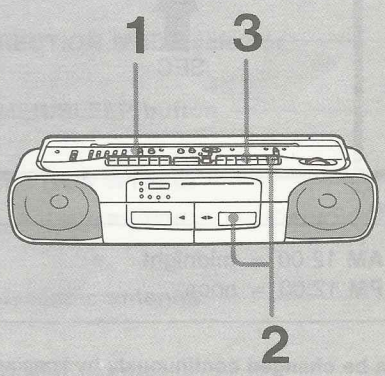
If the received FM stereo signal is too weak
The reception becomes monaural, and the FM STEREO indicator will go out.

Antenna adjustment



Tape Playback (either deck)

Make sure to set SLEEP/TIMER to OFF.

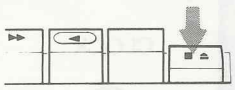


1

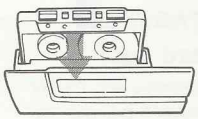
FUNCTION

TAPE/RADIO OFF

2 Insert a cassette.



STOP/EJECT



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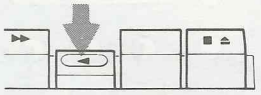
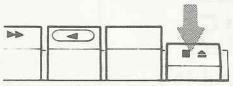


PLAY

To stop playback



STOP/EJECT

To remove the cassette, press ■⏏ again.

To adjust sound level and tone quality, adjust the VOLUME and graphic equalizer controls.

For private listening, connect stereo headphones to HEADPHONES jack.

To Locate the Beginning of a Desired Selection (AMS function—deck A)

During play (◄ is depressed) press the following buttons.

Tape transport direction indicator	FWD◁	REV ▷
To locate the beginning of the selection being played	►►	◄◄
To locate the beginning of the next selection	◄◄	►►

Playback starts automatically at the beginning of the desired selection following fast winding.

Notes on AMS

- When recording, obtain the unrecording space of more than five seconds by pressing REC MUTE (record muting).
- If there is a very low portion — such as pianissimos — for several seconds, the AMS function may not work properly.
- When playing back on deck B, the AMS function does not work.

AMS: Automatic Music Sensor

To Located Desired Selection (Cue/Review function—deck B)

Press ◄◄ or ►► during playback. Release to monitor sound until the desired selection is located or, monitor high speed sound until the space between selections is located.

To start playback again, release ◄◄ or ►►.

To Select the Tape Transport Direction (DIRECTION MODE selector—deck A)

	DIRECTION MODE selector
To play back both sides of a cassette once starting from the front side to the reverse side of a cassette	⮌
To play back both sides of a cassette continuously	⟲

Notes

On deck B if playback on one side is completed, ◄ will automatically be released. When deck A playback on the reverse side (DIRECTION MODE is in ⮌ position) is completed, ◄ will automatically be released (Auto Shut-off function).

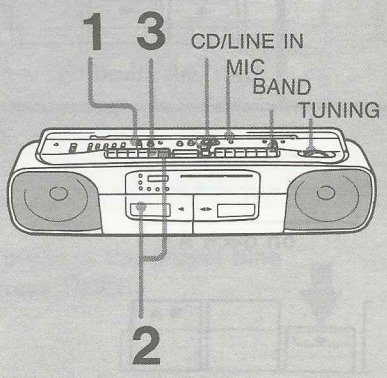
After winding with ◄◄ or ►►, press ■⏏ to release ◄◄ or ►►.

When both decks A and B are in moving mode

- The tape transport direction indicator shows the tape transport direction of deck A.
- When both decks are in playback mode, only playback from deck B will be audible.

Recording (deck B only)

- Use TYPE I (normal) tape.
- Make sure to set TIMER/SLEEP to OFF.



1 From radio

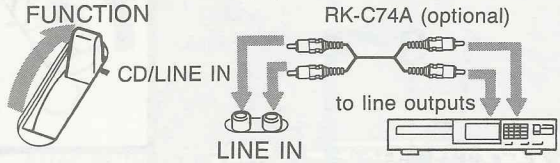
FUNCTION

From built-in mic

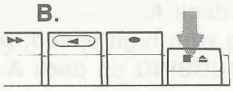
FUNCTION MIC

From other stereo equipments

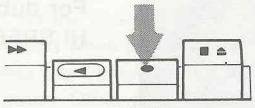
FUNCTION RK-C74A (optional)



2 Insert a blank cassette into deck B.

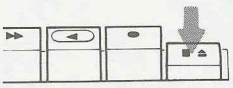


3



◄ is pressed automatically.

To stop recording



When the tape reaches the end, depressed ● and ◄ will automatically be released (Auto Shut-off function).
When recording is completed, set FUNCTION to TAPE/RADIO OFF.

To Record Blank Portion Between Selections (record muting)

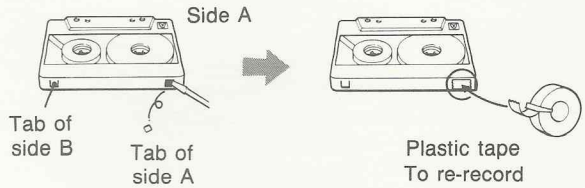
To locate the beginning of the selection by using the AMS function, there must be a blank portion of more than five seconds between each selection. Make these portions as follows:

1. During recording press REC MUTE for more than five seconds at the desired position.
2. Press ❚❚ while keeping REC MUTE pressed.
3. Release REC MUTE.
4. To resume recording, press ❚❚ again.

Sound from speakers or headphones are audible even when REC MUTE is pressed.

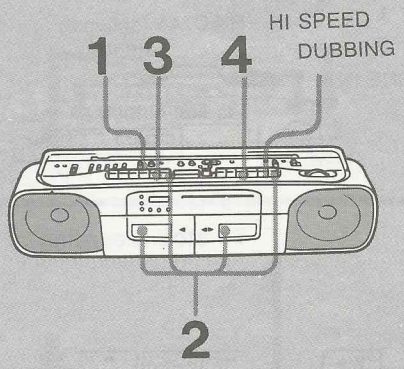
Note
The recording level is automatically adjusted. Setting of the VOLUME and graphic equalizer controls will not affect recording level.

To prevent accidental erasure
Break off the tab corresponding to the side which has been recorded. Recording on that side will be protected.

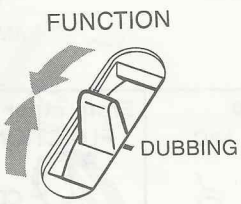


Tape Dubbing (deck A to deck B)

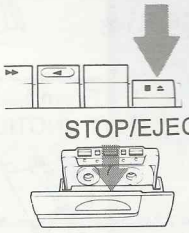
Playback on deck A will be recorded on deck B.
Make sure to set TIMER/SLEEP to OFF.



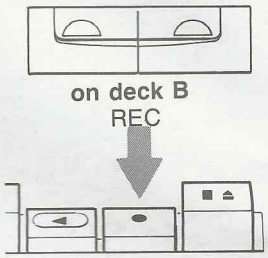
1



2 Insert recorded tape in deck A, blank tape in deck B.



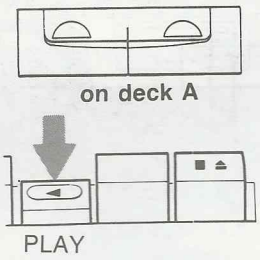
3



Unit will stand by.

4

For dubbing with normal speed, press ◄ on deck A.
For dubbing with high speed, press HI SPEED DUBBING on deck A.



Recording standby is automatically released and dubbing starts.

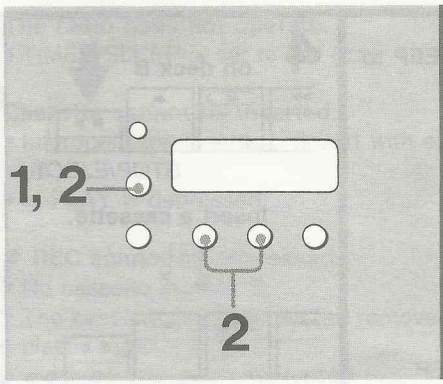
To stop dubbing
Press ■▲ of deck A and then deck B.
After dubbing, set FUNCTION to TAPE/RADIO OFF.

Notes
- When both decks A and B are in movement, the tape transport direction indicator shows the tape transport direction of deck A.
- During dubbing do not change the setting of FUNCTION. If dubbing speed is changed during dubbing, the recording may be distorted. Setting of the controls affect the recording, and sounds other than those on the tape will be recorded.
- If deck A's tape finishes first, ◄ will automatically be released and deck B will also stop. ● and ◄ are still depressed. To release them, press ■▲ .
- If deck B's tape finishes first, ● and ◄ will automatically be released. Deck A will continue to play.
- When dubbing reverse side on deck A, dubbing speed is in normal speed.

To Use the Built-in Timer

To Set the Timer

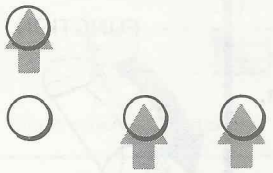
Only the starting time can be preset.
The power turns off itself automatically after one hour.



1

TIMER

2 **Press HOUR and then MIN while keeping TIMER pressed.**



After setting the timer, release TIMER, and the current time will appear.

To check the preset time
Press TIMER.

Note
To set the timer, press the TIMER button first, and keep it pressed while pressing the HOUR and MIN buttons. Do not press the TIMER button after pressing the HOUR and MIN buttons. Otherwise, the current time will change on the display window.

To Listen to the Radio at the Desired Time

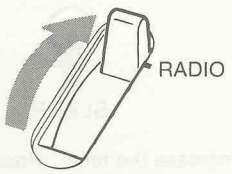
Check that the clock shows the current time. If it does not, see page 5.

1

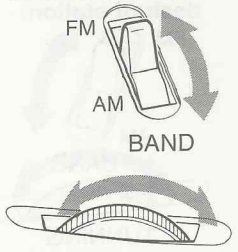
Set the timer to the desired time.

2

FUNCTION



3 **Select the desired band and tune in the desired station.**



TUNING

4 **Set TIMER/SLEEP to ON (⌴)**

TIMER/SLEEP

To stop the radio
Set FUNCTION to TAPE/RADIO OFF. Otherwise, the radio will continue to sound for about one hour and automatically turn off.

After using the timer
Set TIMER/SLEEP to OFF.

To record at the desired time
1. Follow the steps as described above.
2. Insert a blank tape in deck B.
3. Press ● on deck B.

Recording will start at the preset time. When the tape reaches its end of one side, recording will finish and the radio will turn off after one hour elapsed.

To Use the Built-in Timer

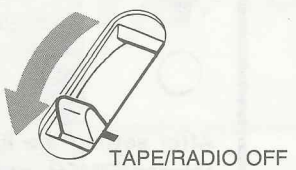
To Listen to the Tape at the Desired Time (deck B only)

Check that the clock shows the current time. If it does not, see page 5.
Use deck B only. On deck A the timer does not work.

1

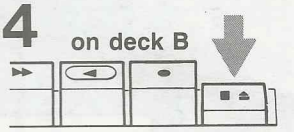
Set the time for alarm.

2

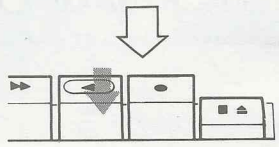


3 **Set TIMER/SLEEP to ON (⊏⊐)**

4 **on deck B**



Insert a cassette.



To stop playback, press ■▲ on deck B.

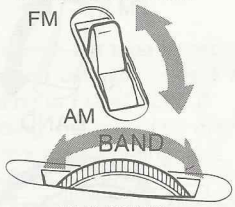
After listening to the tape, set TIMER/SLEEP to OFF.

To Sleep with Radio (sleep function) and Wake up to the Radio

Set the time for alarm.

1

2 **Select the desired band and tune in the desired station.**

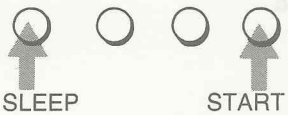


3 **Set the time to listen to the radio.**

To increase the time: Press + while keeping SLEEP pressed
To decrease the time: Press – while keeping SLEEP pressed.
The sleep timer can be set up to 59 minutes by one minute.

4 **Set TIMER/SLEEP to ON (⊏⊐)**

5 **Press START while keeping SLEEP pressed.**



Notes

- To set the time for when you wish to listen to the radio, press SLEEP first, and keep it pressed while pressing either +, –, or START. Do not press SLEEP after pressing either +, –, or START. Otherwise, the current time will change on the display window.
- The preset sleep time is memorized until a new one is set.
- While the sleep timer is operating, the remaining time is not displayed. The remaining time will appear when SLEEP is pressed. If the remaining time becomes less than 20 minutes, the seconds will also appear.

Troubleshooting Guide

The unit does not operate.
- The AC power cord is not connected.
- No batteries in battery compartment.
- Batteries installed incorrectly.

The radio does not operate.
- TIMER/SLEEP is set to ON (⌴).

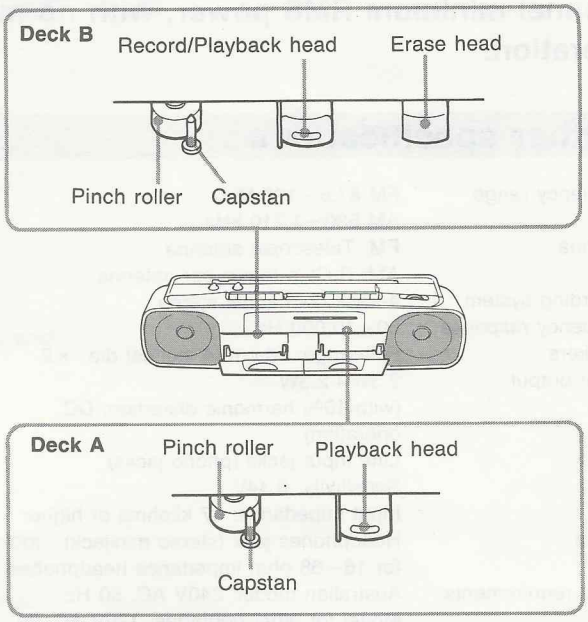
Cassette cannot be inserted.
- Improper tape insertion. (Insert with exposed tape side up.)
- ◄ PLAY is depressed.

● REC cannot be depressed.
- No cassette in deck B.
- The cassette inserted has tab removed. If so, cover with plastic tape.
- ◄◄ or ►► has been depressed.

Tape doesn't move.
- ❚❚ PAUSE is depressed.
- TIMER/SLEEP is set to ON (⌴).

No sound from speakers.
- Headphones are plugged in.
- The VOLUME control is turned down completely.
- The FUNCTION selector setting is incorrect.

Poor playback, recording or erase quality.
- Dirty heads. Clean the illustrated portions with cotton swab lightly moistened with cleaning fluid or denatured alcohol.



Specifications

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven, from 150 to 10,000 Hz; rated 1.7W per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

Other specifications

Frequency range	FM 87.6 – 108 MHz AM 530 – 1,710 kHz
Antenna	FM: Telescopic antenna AM: Built-in ferrite bar antenna
Recording system	4-track, 2-channel stereo
Frequency response	80 – 10,000 Hz
Speakers	Full-range: 10 cm (4 inches) dia. × 2
Power output	2.3W + 2.3W (with 10% harmonic distortion; DC operation)
Inputs	Line input jacks (phono jacks) Sensitivity: 0.44V Input impedance: 47 kilohms or higher
Output	Headphones jack (stereo minijack) for 16 – 68 ohm impedance headphones
Power requirements	Australian model: 240V AC, 50 Hz Model for other countries: 120V AC, 60 Hz 9V DC. six size D (R20) batteries Clock: DC 1.5V, 1 size AA (R6) battery
Power consumption	14W in AC operation

Battery life

Batteries	FM recording
Sony SUM-1 (NS)	Approx. 12 hours
Sony AM1 alkaline	Approx. 18 hours

Timer section: Approx. 2 years using Sony SUM-3 (NS)

Dimensions	Approx. 566 × 148 × 150 mm (w/h/d) ($22^3/_8 \times 5^7/_8 \times 6$ inches) incl. projecting parts and controls, not incl. handle
Weight	Approx. 3.9 kg (8 lb 11 oz) incl. batteries
Accessory supplied	AC power cord(1)

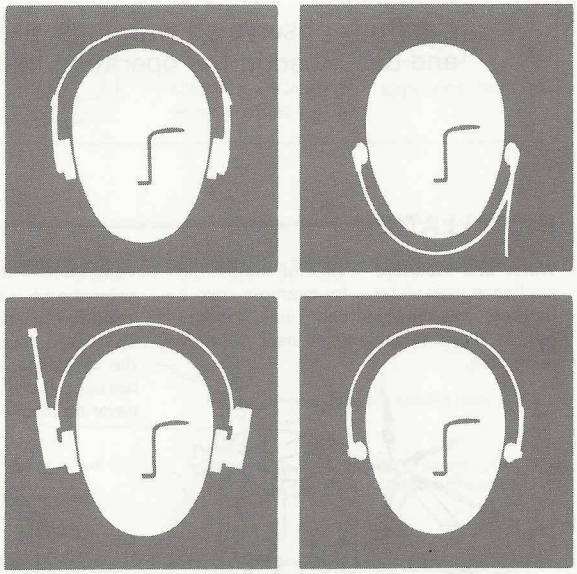
Design and specifications subject to change without notice.

Sony Corporation Printed in Malaysia

Read this important information before using your headset.

REMEMBER...

USE YOUR HEAD WHEN YOU USE YOUR HEADSET.



A safety tip from the
Electronic Industries Association
Consumer Electronics Group
P.O. Box 19100
Washington, D.C. 20036

The portable headset is one of the most exciting and innovative consumer electronics products ever developed. With it you can now enjoy listening to your favorite music wherever you go.

BUT, FOR YOUR COMFORT, HEALTH AND SAFETY BE SURE TO OBSERVE THE FOLLOWING GUIDELINES.

Hearing Comfort & Well-Being

- Do not play your headset at a high volume. Hearing experts advise against continuous extended play.
- If you experience a ringing in your ears, reduce volume or discontinue use.

Traffic Safety

- Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations.
- Even if your headset is an open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

379574821

SONY

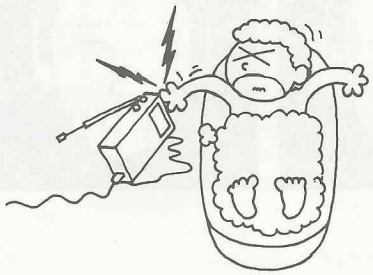
IMPORTANT SAFEGUARDS

For your protection, please read these safety instructions completely before operating the appliance, and keep this manual for future reference.

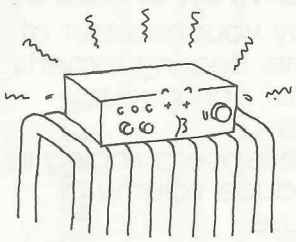
Carefully observe all warnings, precautions and instructions on the appliance and described in the operating instructions supplied with the appliance by Sony.

INSTALLATION

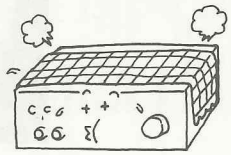
Water and Moisture — Do not install the appliance near water : for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.



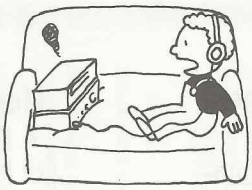
Heat — Do not install the appliance near sources of heat such as radiators, heat registers, stoves, or other appliances that produce heat.



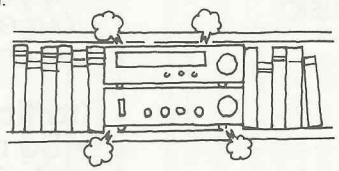
Ventilation — Slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation.
To ensure reliable and safe operation of the appliance, and to protect it from overheating, these slots and openings must never be blocked or covered.



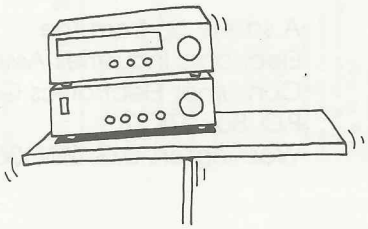
— Do not place the appliance on a bed, sofa, rug or other similar surface which may block the slots and openings.



— Do not install the appliance in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.



Carts and Stands — Do not install the appliance on an unstable table, shelf, cart or stand. Use only a cart or stand recommended by Sony.

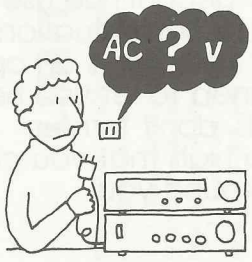


— An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

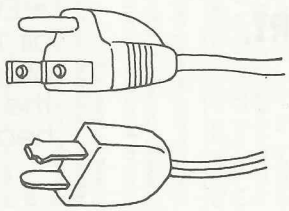
Wall or Ceiling Mounting — If your appliance can be mounted to a wall or ceiling, mount it only as recommended by Sony.

USE

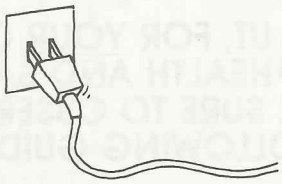
Power Source — Connect the appliance to a power supply only of the type described in the operating instructions or as marked on the appliance.



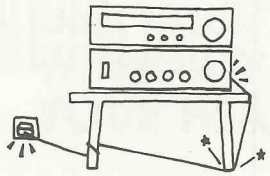
Grounding or Polarization — Do not defeat the grounding or polarization feature of the AC power cord. If your AC receptacle will not accept the power cord plug, contact your electrician to install a proper AC receptacle.



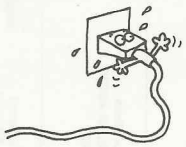
AC Receptacle — Check to make sure that the AC receptacle holds the power cord plug firmly and securely. If the power cord plug is loose, contact your electrician to replace the defective and unsafe AC receptacle.



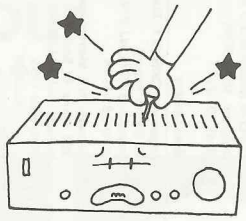
Power-Cord Protection — Route the power cord so that it is not likely to be walked on or pinched by having objects placed on it, paying particular attention to the plugs, receptacles, and the point where the cord exits from the appliance.



When not in use — Unplug the power cord of the appliance from the outlet when left unused for a long period of time.
To disconnect the cord, pull it out by grasping the plug. Never pull the plug out by the cord.



Foreign Objects — Be careful that foreign objects and liquids do not enter the enclosure through openings.



Cleaning — Clean the appliance only as recommended by Sony.

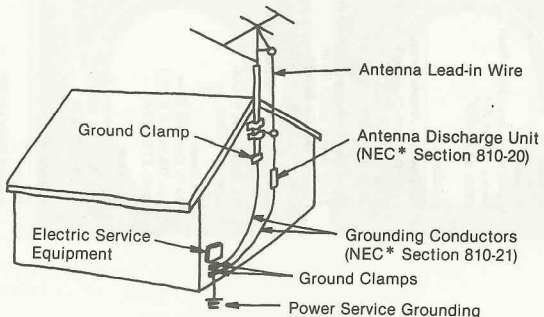
ANTENNAS

Outdoor Antenna Grounding — If an outdoor antenna or cable system is installed, follow the precautions below.

An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the National Electrical Code



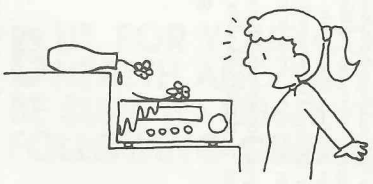
*National Electrical Code-
Available from Library, book stores, or National Fire Protection Association, Batterymarch Park, Quincy. MA 02269

SERVICE

Unplug the appliance from the wall outlet and consult qualified service personnel when :

— the power cord or the plug has been damaged.

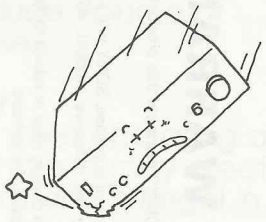
— a solid object or liquid has fallen into the cabinet.



— the appliance has been exposed to rain or moisture.

— the appliance does not appear to operate normally or exhibits a marked change in performance.

— the appliance has been dropped, or the enclosure damaged.



Do not attempt to service the appliance beyond that described in the operating instructions. For all other servicing refer to qualified service personnel only.

SONY®

AUDIO TAPE RECORDER

LIMITED WARRANTY

SONY CORPORATION OF AMERICA ("SONY") warrants this product against defects in material or workmanship, as follows:

1. For a period of 90 days from the date of purchase, SONY will pay the labor charges of your SONY authorized service facility to repair the defective product. After this 90-day period, you must pay for all labor charges.
2. In addition, SONY will supply, at no charge, new or rebuilt replacements for defective parts for a period of 1 year from the original date of purchase.

Labor and Parts

To obtain warranty service during the initial 90-day period, you must take the product, or deliver the product prepaid, to a SONY authorized service facility.

Parts Only

During the remainder of the warranty period, any defective part will be replaced if it is taken, or delivered prepaid, to a SONY service center. Labor for removal and installation is available from your SONY authorized service facility or SONY service center, at your expense.

This warranty does not cover cosmetic damage, and damage due to acts of God, accident, misuse, abuse or negligence to the product, including the antenna. This warranty is valid only in the United States of America.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the warranty period must be presented to obtain warranty service.

This warranty is valid only if the serial number appears on the product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership SM within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For your convenience, Sony Corporation of America has established the Customer Information Center to supply you with product or service information.

SONY CUSTOMER INFORMATION CENTER
201-930-SONY (7669)

or write to:

Sony Customer Information Center
Sony Drive, Mail Drop #M-1
Park Ridge, NJ 07656

SONY CORPORATION OF AMERICA
Sony Drive, Park Ridge, New Jersey 07656

3-352-390-01 (1)

Printed in Malaysia

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Tempe, AZ 85281
(602) 949-7669

California

Burbank (Los Angeles area)
4100 Riverside Drive, Suite A
Burbank, CA 91505
(818) 842-7669

Costa Mesa (Orange County area)
2729 Bristol Street South
Costa Mesa, CA 92626
(714) 549-4833

San Bruno (San Francisco area)
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San Bruno, CA 94066
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San Diego, CA 92123
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(312) 647-2400

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Westmont, IL 60559
(312) 969-0049

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(201) 529-1655

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10610 Perry Highway (Rt. 19N)
Wexford, PA 15090
(412) 935-8466

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Dallas, TX 75230
(214) 661-3537

Houston
5747 Richmond Avenue
Houston, TX 77057
(713) 783-8761

Washington

Seattle
515 South Michigan Street
Seattle, WA 98108
(206) 762-6500

Sony District Service Offices

Western Zone

Western District
Sony Service Company
2729 Bristol Street South
Costa Mesa, CA 92626
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Northwestern District
Sony Service Company
1359 Old Oakland Road
San Jose, CA 95112
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Southwestern District
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